



Fact Sheet



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WELLHEAD PROTECTION AREA DELINEATION REVIEW CRITERIA

Per Indiana's Wellhead Protection Rule, 327 IAC 8-4.1, "Wellhead Protection Area" or "WHPA" means the surface and subsurface area, delineated by fixed radius, hydrogeological mapping, analytical, semianalytical or numerical flow/solute transport methods which contributes water to a CPWSS production well or wellfield and through which contaminants are likely to move through and reach the well within a specified period.

Wellhead Protection Program staff have determined the WHPA should be the best estimate of the five year time of travel given available data. The best estimate should include all areas which the water is likely to move through and reach the well within a five years.

Wellhead Protection Program staff currently accept one of four methods as adequate to demonstrate that the modeled area includes all areas which the water is likely to move through within a five year time of travel:

- 1) A composite WHPA created by combining the delineations developed during the uncertainty analysis required by 327 IAC 8-4.1-7(2)(E)(i-v).
- 2) A delineation developed from a calibrated model coupled with the uncertainty analysis required by 327 IAC 8-4.1-7(2)(E)(i-v).
- 3) A delineation developed recognizing clear hydrogeologic boundaries which limit the WHPA, i.e., hydrogeologic mapping.
- 4) A delineation developed using parameter estimation or a set of conservative values resulting in the largest WHPA.

As determined by department review, wellhead protection delineation reports that are complete per the requirements of 327 IAC 8-4.1- 7 and clearly communicate one of the above four methods was used to delineate the submitted WHPA will be approved by the department.